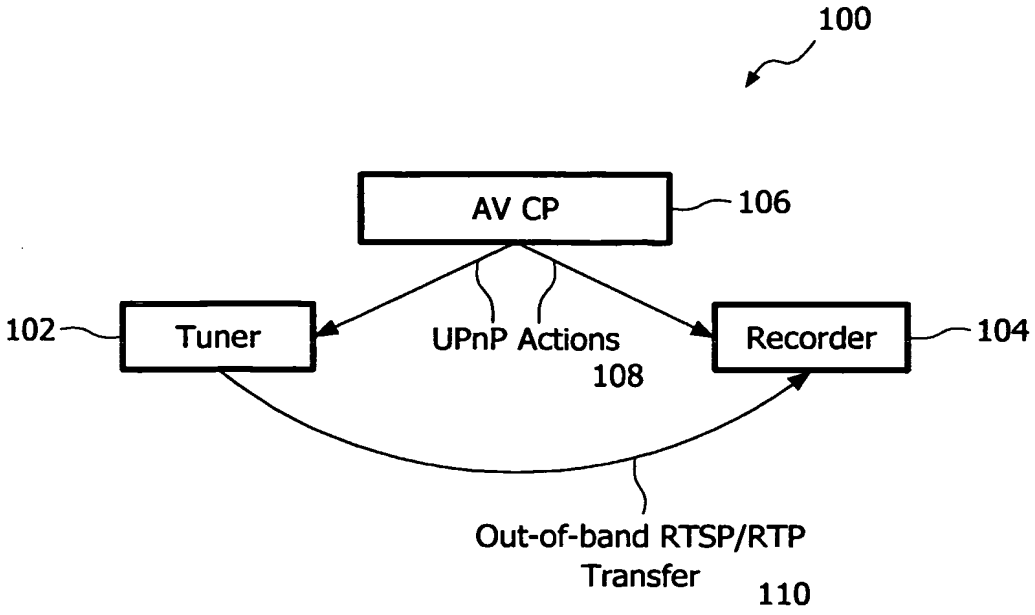

FIG. 1

Argument	Direction	relatedStateVariable
RemoteProtocolInfo	IN	A_ARG_TYPE_ProtocolInfo
PeerConnectionManager	IN	A_ARG_TYPE_ConnectionManager
PeerConnectionID	IN	A_ARG_TYPE_ConnectionID
Direction	IN	A_ARG_TYPE_Direction
ChannelName	IN	A_ARG_TYPE_???
ScheduledStartName	IN	A_ARG_TYPE_???
ScheduledStopTime	IN	A_ARG_TYPE_???
ConnectionID	OUT	A_ARG_TYPE_ConnectionID
AVTransportID	OUT	A_ARG_TYPE_AVTransportID
RcsID	OUT	A_ARG_TYPE_RcsID

FIG. 2

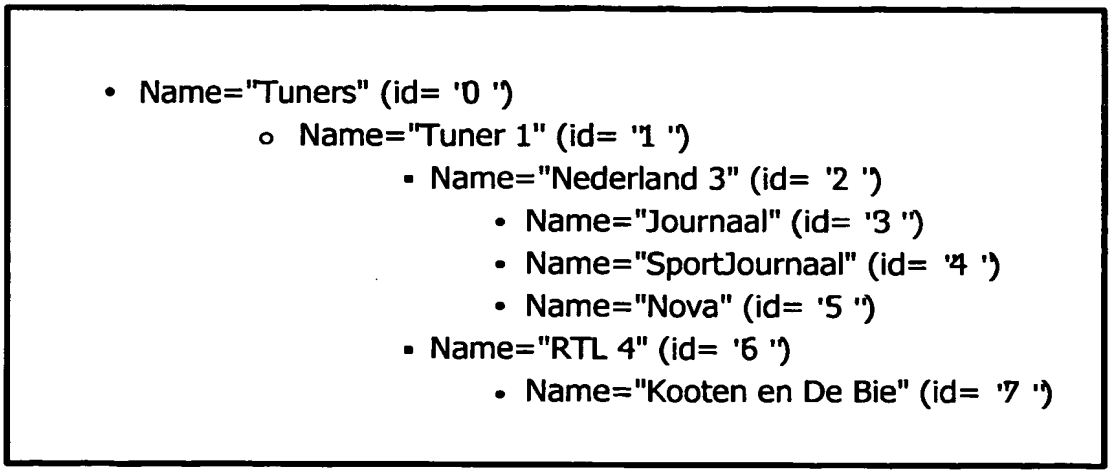
Name="Tuners" (id= '0 ')
Name="Tuner 1" (id= '1 ')
Name="Nederland 3" (id= '2 ')
Name="Journaal" (id= '3 ')
Name="SportJournaal" (id= '4 ')
Name="Nova" (id= '5 ')
Name="RTL 4" (id= '6 ')
Name="Kooten en De Bie" (id= '7 ')

FIG. 3

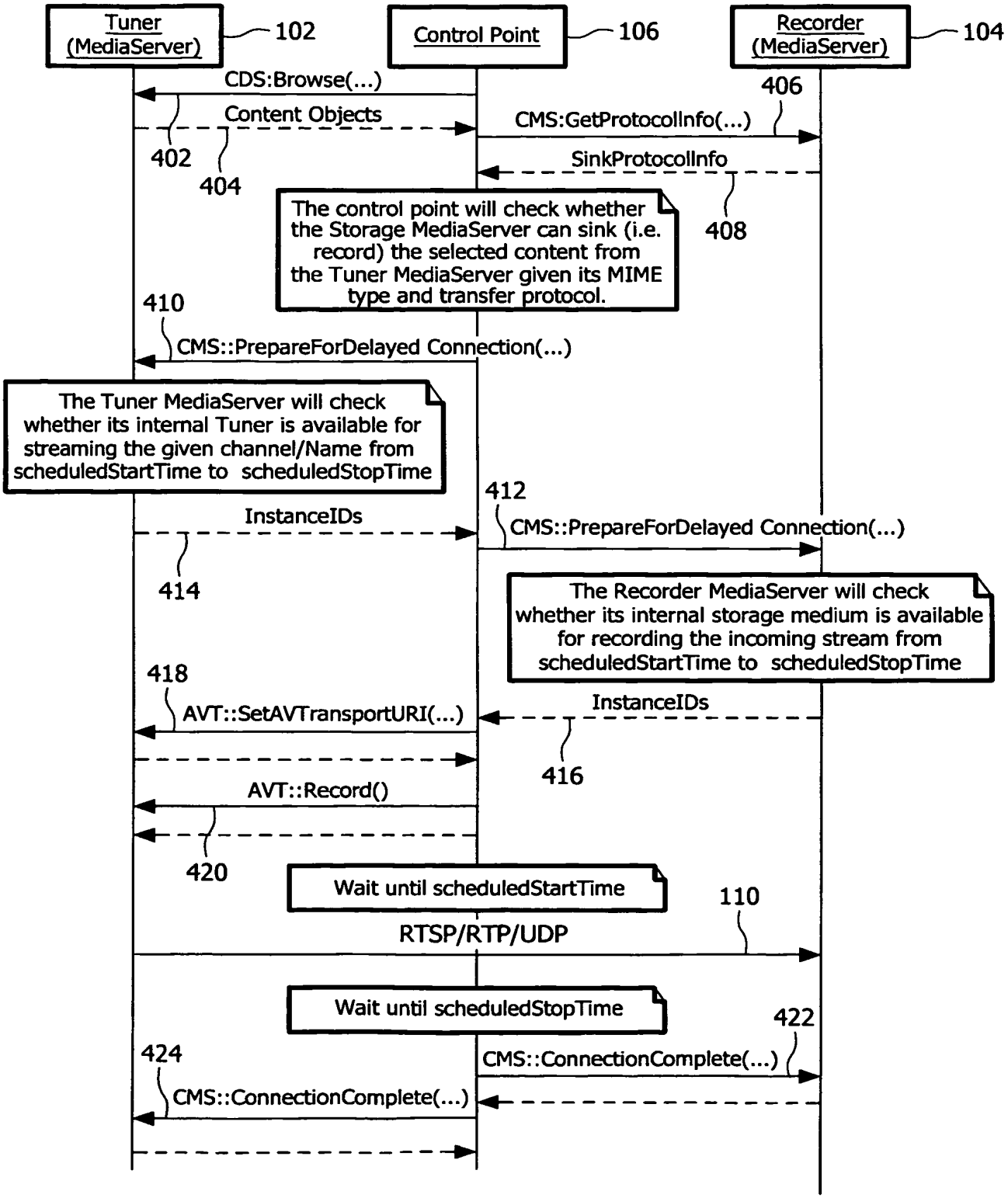
Tuner (MediaServer)
102
Control Point
106
Recorder (MediaServer)
104
CDS:Browse(...)
406
Content Objects
CMS:GetProtocolInfo(...)
402
404
SinkProtocolInfo
408
The control point will check whether the Storage MediaServer can sink (i.e. record) the selected content from the Tuner MediaServer given its MIME type and transfer protocol.
410
CMS::PrepareForDelayed Connection(...)
The Tuner MediaServer will check whether its internal Tuner is available for streaming the given channel/Name from scheduledStartTime to scheduledStopTime
412
InstanceIDs
CMS::PrepareForDelayed Connection(...)
414
The Recorder MediaServer will check whether its internal storage medium is available for recording the incoming stream from scheduledStartTime to scheduledStopTime
418
AVT::SetAVTransportURI(...)
InstanceIDs
416
AVT::Record()
420
Wait until scheduledStartTime
110
RTSP/RTP/UDP
Wait until scheduledStopTime
422
424
CMS::ConnectionComplete(...)
CMS::ConnectionComplete(...)

FIG. 4

Request:
Browse (
"2"
"BrowseMetaData" ,
"*" ,
0 ,
0) ;

Response:
Browse (
1 ,
1 ,
"<DIDL-Lite xmlns : dc="http://purl . org/dc/elements/1.1/ "
xmlns : upnp="urn : schemas-upnp-org : metadata-1-0/upnp/ "
xmlns="urn : schemas-upnp-org :metadata-1-0/DIDL-lite/ ">
<item id="2" parentID="1" restricted="true">
<dc : title>Nederland 3</dc : title>
<upnp : class>
object . item . videoItem . videoBroadcast
</upnp : class>
<res protocol Info="rtsp-rtp-udp : * : MP2T : * " >
rtsp:/ / 10 . 0 . 0 . 1 / nederland3 . mpg
</res>
</item>
</DIDL-Lite>") ;

FIG. 5

```
Request:
GetProtocolInfo ( ) ;

Response:
GetProtocolInfo(
        " " ,
        "rtsp-rtp-udp : * : MP2T : * ,  rtsp-rtp-udp :* : MPV : * " ) ;
```

FIG. 6

```
Request:
PrepareForDelayedConnection (
        "rtsp-rtp-udp : * : MP2T : * " ,
        "tuner-udn/urn : upnp-org : serviceId : connectionManager",
        "-1" ,
        "out" ,
        "Nederland 3" ,
        "2003-09-22T22 : 00 : 00" ,
        "2003-09-22T22 : 15 : 00" ) ;

Response:
PrepareForDelayedConnection ( "1" ,  "1" ,  "-1" ) ;
```

FIG. 7

```
Subsequent Request:
PrepareForDelayedConnection (
        "rtsp-rtp-udp : * : MP2T : * " ,
        "recorder-udn/urn : upnp-org : serviceId : connectionManager",
        "1" ,
        "out" ,
        "Nederland 3" ,
        "2003-09-22T22 : 00 : 00" ,
        "2003-09-22T22 : 15 : 00" ) ;
Response:
PrepareForDelayedConnection ( "1" , "1" , "-1" ) ;
```

FIG. 8

```
Request:
SetAVTransportURI(
        1,
        "rtsp:/ / 10 . 0 . 0 . 1/nederland3 . mpg",
        "NULL");
Response:
SetAVTransportURI();
```

FIG. 9

```
Request:
Record(1) ;

Response:
Record( ) ;
```

FIG. 10

```
Request:
ConnectionComplete(1) ;

Response:
ConnectionComplete( ) ;
```

FIG. 11